

## Features

- Voltage Input Range 100~240V AC
- Interchangeable Medical Plugtop Adapters
- Approved to UKCA, CE, CB, cURus, FCC, RCM (C-Tick), SAA, RoHS, REACH
- Safety standards to UL 60601-1/EN 60601-1  
BS EN60601-1
- Protection: OCP, SCP



Certified to UKCA, CE, CB, cURus, FCC, RCM (C-Tick), SAA, RoHS, REACH & UL 60601-1/EN 60601-1/BS EN 60601-1 Standards and complies with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in Medical Industries and customised solutions are available upon request.

### Models

| Model Number       | DC Voltage (V) | Rated Current (A) | Rated Power (W) | Efficiency (%) |
|--------------------|----------------|-------------------|-----------------|----------------|
| 44MKB2-0502500DEXU | 5              | 2.5               | 12.5            | 80             |

### Input Specifications

|                 |   |
|-----------------|---|
| Input Voltage   | 90-264VAC                                   |
| Frequency Range | 47/63Hz                                     |
| AC Current      | 0.4A Max (I/P 100~240V AC)                  |
| Inrush Current  | COLD START at 25°C - 40A Max at 100~240V AC |
| Leakage Current | < 0.5mA for Class II                        |

### Output Specifications

|                    |  |
|--------------------|--|
| Ripple and Noise   | 200mVp-p - 20MHz Bandwidth 10uF Ele. Cap. & 0.1uF Cer. Cap |
| Output Overshoot   | 10%  |
| Line regulation    | +1%  |
| Load regulation    | +5%  |
| Turn-on delay time | 3000mS   |
| Hold up time       | 10mS/115V AC – 20mS/230V AC                                |

**Standards & Certifications**

|                    |   |
|--------------------|---|
| Safety Regulations | UL 60601-1/EN 60601-1/BS EN60601-1, AS NZS 60601-1 Approved       |
| Certifications     | UKCA, CE, CB, cURus, FCC, RCM (C-Tick), SAA, RoHS, REACH          |
| EMC                | FCC PART 15B, EN 55014-1, BS EN 55014-1                           |
| EMS                | Air Discharge +/-8KV – Contact Discharge +/-4KV - Test Criteria B |

**Protection**

|               |   |
|---------------|---|
| Over Current  | The green mode power supply shall be hiccupped when any output operating in overload Condition (set@ Max load 110%~200%) under any line condition indefinitely.<br>Will self-recover when the fault condition is removed. |
| Short Circuit | The power supply shall be hiccupped, and no damage shall occur when any output operates in a short circuit condition under any line condition indefinitely.<br>Will self-recover when the fault condition is removed.     |

**Environmental Conditions**

|                   | Operating  | Non-Operating   |
|-------------------|--|---|
| Ambient Temp      | -10~+40°C  | -20~+60°C   |
| Relative Humidity | 10~90%   | 10~90%  |
| Vibration         | 1.0mm, 10 ~ 25Hz, 15min. /1 cycle for each axis along X, Y,Z   | The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it's mounted in the chassis assembly and packed for shipping. |
| Cooling           | The power supply will operate with convection cooling. Blocking of vents must not cause damage to the power supply |   |

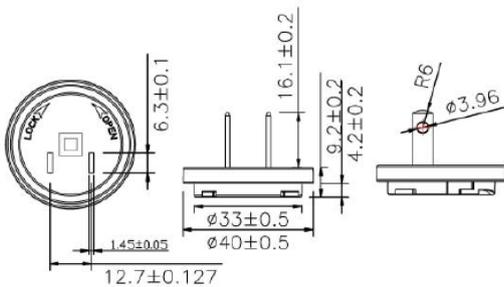
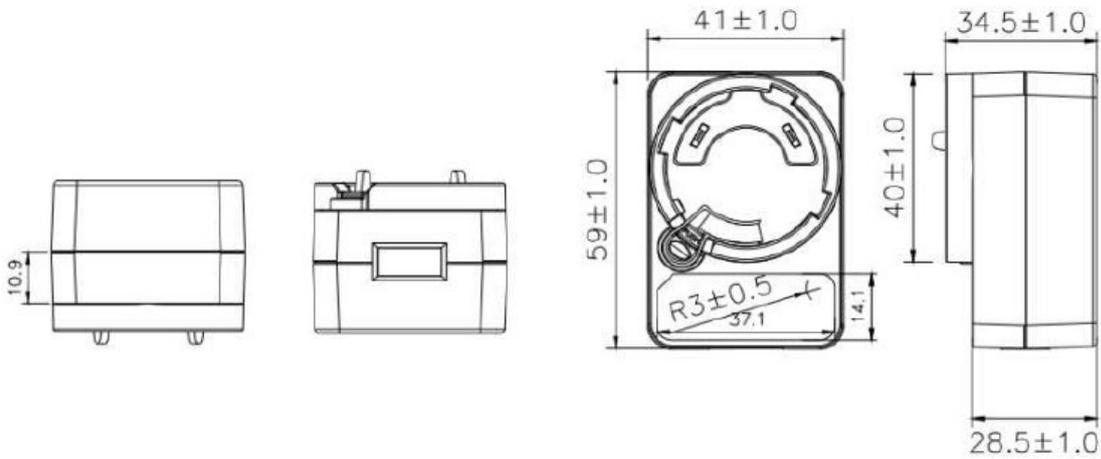
**Reliability**

|                    |   |
|--------------------|---|
| MTBF               | The predicted and demonstrated MTBF must exceed 50K hours at 25° C.                             |
| Burn-In            | The power supply shall undergo a minimum of 4 hours Burn-In test under full load at 40°C ~ ±5°C |
| Component Derating | Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating  |
| Warranty           | 2 years   |

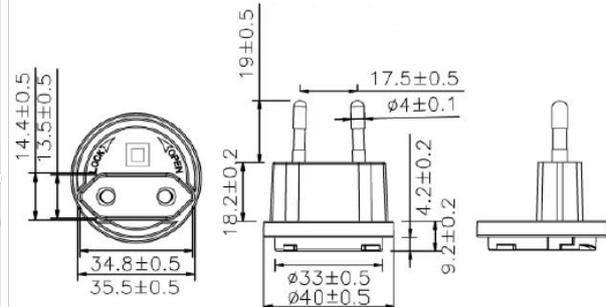
**Reliability**

|        |                   |
|--------|-------------------|
| Size   | 59 x 41 x 28.5 mm |
| Weight | 60g               |

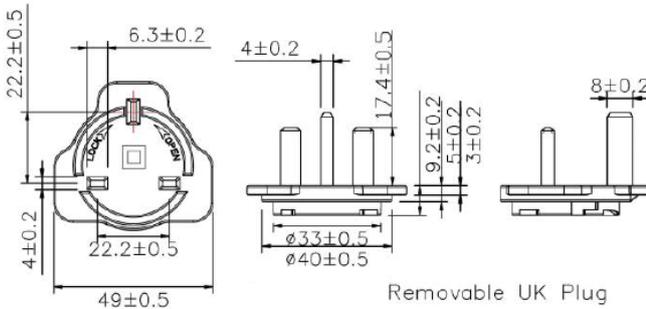
Dimensions and Recommended Layout



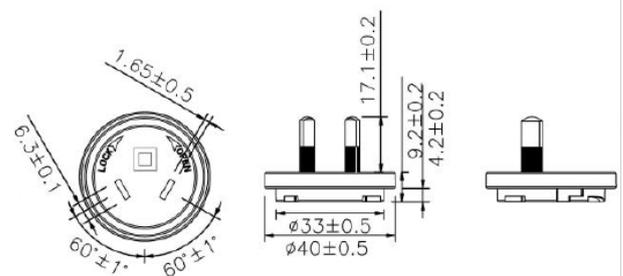
Removable US/PSE Plug



Removable EU Plug



Removable UK Plug



Removable AU Plug

Typical Label

AC/DC Adapter

MODEL: MKB2-0502500DEXU  
INPUT: 100-240V~50/60Hz 0.4A  
OUTPUT: 5.0V --- 2.5A 12.5W

**CE UK VI**  
**CAFC**

**IP IDEALPOWER**  
experts in power conversion

**UL US**  
E518671

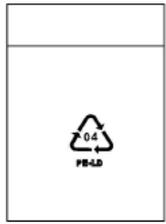
**LPS**  
Merryking Enterprises  
(HK)Co., Ltd.

**YYMM**

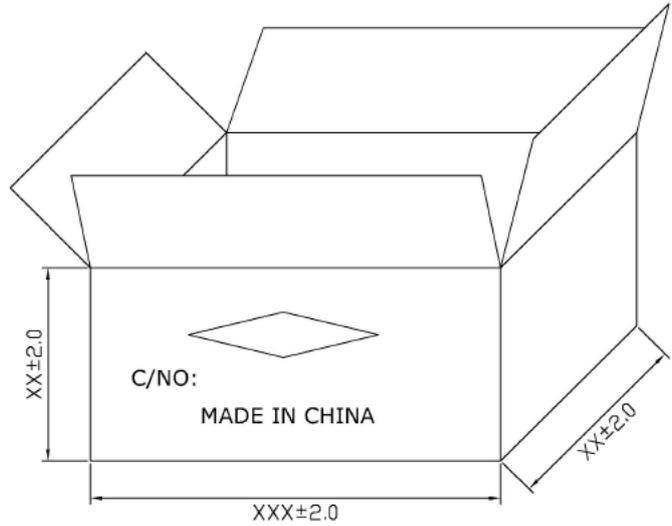
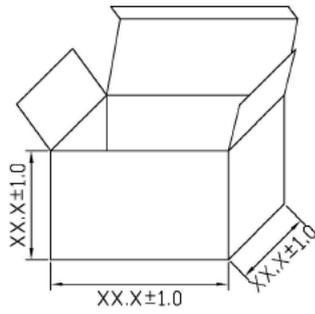
**LOT** DMMDD **MADE IN CHINA**

IMPORTER: Ideal Power Ltd

Packaging



PE袋



P.O:  
P/N:  
QTY: PCS  
N.W.: KGS  
G.W.: KGS